RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: _09/117,2460_

Source: _/Fw/6_

Date Processed by STIC: _4/3/07_

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IFW16

RAW SEQUENCE LISTING   DATE: 04/03/2007
PATENT APPLICATION: US/09/117,246D   TIME: 13:20:50

Input Set : A:\50062.004001.txt
Output Set: N:\CRF4\04032007\I117246D.raw

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 3 <110> APPLICANT: Ludevid, Dolores
 4        Torrent, Margarita
 5        Alvarez, Inaki
 6        Perez, Pascual
 8 <120> TITLE OF INVENTION: Amino acid-enriched plant protein reserves, particularly
 9        lysine-enriched maize gamma-zein, and plants expressing such
10        proteins
12 <130> FILE REFERENCE: 50062/004001
14 <140> CURRENT APPLICATION NUMBER: US 09/117,246D
15 <141> CURRENT FILING DATE: 1998-12-03
17 <150> PRIOR APPLICATION NUMBER: PCT/FR97/00167
18 <151> PRIOR FILING DATE: 1997-01-28
20 <150> PRIOR APPLICATION NUMBER: FR96/01004
21 <151> PRIOR FILING DATE: 1996-01-29
23 <160> NUMBER OF SEQ ID NOS: 25
25 <170> SOFTWARE: PatentIn version 3.3
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28 <211> LENGTH: 44
29 <212> TYPE: DNA
30 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: based on Maize
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41 <212> TYPE: DNA
42 <213> ORGANISM: Artificial Sequence
44 <220> FEATURE:
45 <223> OTHER INFORMATION: based on Maize
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52 <211> LENGTH: 17
53 <212> TYPE: PRT
54 <213> ORGANISM: Maize
56 <400> SEQUENCE: 3
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59 1               5                   10                  15
62 Pro
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67 <211> LENGTH: 28
68 <212> TYPE: PRT
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                Input Set : A:\50062.004001.txt
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78              20                  25
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82 <211> LENGTH: 20
83 <212> TYPE: PRT
84 <213> ORGANISM: Maize
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92 Phe Lys Leu Asp
93              20
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97 <211> LENGTH: 672
98 <212> TYPE: DNA
99 <213> ORGANISM: Maize
102 <220> FEATURE:
103 <221> NAME/KEY: CDS
104 <222> LOCATION: (1)..(672)
106 <400> SEQUENCE: 6
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109 1               5                  10                  15
111 gcc acc tcc acg cat aca agc ggc ggc tgc ggc tgc cag cca ccg ccg      96
112 Ala Thr Ser Thr His Thr Ser Gly Gly Cys Gly Cys Gln Pro Pro Pro
113              20                  25                  30
115 ccg gtt cat cta ccg ccg ccg gtg cat ctg cca cct ccg gtt cac ctg     144
116 Pro Val His Leu Pro Pro Pro Val His Leu Pro Pro Pro Val His Leu
117              35                  40                  45
119 cca cct ccg gtg cat ctc cca ccg ccg gtc cac ctg ccg ccg ccg gtc     192
120 Pro Pro Pro Val His Leu Pro Pro Pro Val His Leu Pro Pro Pro Val
121      50                  55                  60
123 cac ctg cca ccg ccg gtc cat gtg ccg ccg ccg gtt cat ctg ccg ccg     240
124 His Leu Pro Pro Pro Val His Val Pro Pro Pro Val His Leu Pro Pro
125 65                  70                  75                  80
127 cca cca tgc cac tac cct act caa ccg ccc cgg cct cag cct cat ccc     288
128 Pro Pro Cys His Tyr Pro Thr Gln Pro Pro Arg Pro Gln Pro His Pro
129                  85                  90                  95
131 cag cca cac cca tgc ccg tgc caa cag ccg cat cca agc ccg tgc cag     336
132 Gln Pro His Pro Cys Pro Cys Gln Gln Pro His Pro Ser Pro Cys Gln
133                  100                 105                 110
135 ctg cag gga acc tgc ggc gtt ggc agc acc ccg atc ctg ggc cag tgc     384
136 Leu Gln Gly Thr Cys Gly Val Gly Ser Thr Pro Ile Leu Gly Gln Cys
137              115                 120                 125
139 gtc gag ttt ctg agg cat cag tgc agc ccg acg gcg acg ccc tac tgc     432
140 Val Glu Phe Leu Arg His Gln Cys Ser Pro Thr Ala Thr Pro Tyr Cys
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RAW SEQUENCE LISTING   DATE: 04/03/2007
PATENT APPLICATION: US/09/117,246D   TIME: 13:20:50

Input Set : A:\50062.004001.txt
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143 tcg cct cag tgc cag tcg ttg cgg cag cag tgt tgc cag cag ctc agg      480
144 Ser Pro Gln Cys Gln Ser Leu Arg Gln Gln Cys Cys Gln Gln Leu Arg
145 145                   150                   155               160
147 cag gtg gag ccg cag cac cgg tac cag gcg atc ttc ggc ttg gtc ctc      528
148 Gln Val Glu Pro Gln His Arg Tyr Gln Ala Ile Phe Gly Leu Val Leu
149               165                   170               175
151 cag tcc atc ctg cag cag cag ccg caa agc ggc cag gtc gcg ggg ctg      576
152 Gln Ser Ile Leu Gln Gln Gln Pro Gln Ser Gly Gln Val Ala Gly Leu
153               180                   185               190
155 ttg gcg gcg cag ata gcg cag caa ctg acg gcg atg tgc ggc ctg cag      624
156 Leu Ala Ala Gln Ile Ala Gln Gln Leu Thr Ala Met Cys Gly Leu Gln
157           195                   200               205
159 cag ccg act cca tgc ccc tac gct gct gcc ggc ggt gtc ccc cac tga      672
160 Gln Pro Thr Pro Cys Pro Tyr Ala Ala Ala Gly Gly Val Pro His
161       210                   215                   220
164 <210> SEQ ID NO: 7
165 <211> LENGTH: 223
166 <212> TYPE: PRT
167 <213> ORGANISM: Maize
169 <400> SEQUENCE: 7
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172 1               5                   10                  15
175 Ala Thr Ser Thr His Thr Ser Gly Gly Cys Gly Cys Gln Pro Pro Pro
176               20                  25                  30
179 Pro Val His Leu Pro Pro Pro Val His Leu Pro Pro Pro Val His Leu
180           35                  40                  45
183 Pro Pro Pro Val His Leu Pro Pro Pro Val His Leu Pro Pro Pro Val
184       50                  55                  60
187 His Leu Pro Pro Pro Val His Val Pro Pro Pro Val His Leu Pro Pro
188 65                  70                  75                  80
191 Pro Pro Cys His Tyr Pro Thr Gln Pro Pro Arg Pro Gln Pro His Pro
192               85                  90                  95
195 Gln Pro His Pro Cys Pro Cys Gln Gln Pro His Pro Ser Pro Cys Gln
196           100                 105                 110
199 Leu Gln Gly Thr Cys Gly Val Gly Ser Thr Pro Ile Leu Gly Gln Cys
200       115                 120                 125
203 Val Glu Phe Leu Arg His Gln Cys Ser Pro Thr Ala Thr Pro Tyr Cys
204       130                 135                 140
207 Ser Pro Gln Cys Gln Ser Leu Arg Gln Gln Cys Cys Gln Gln Leu Arg
208 145                 150                 155               160
211 Gln Val Glu Pro Gln His Arg Tyr Gln Ala Ile Phe Gly Leu Val Leu
212               165                 170                 175
215 Gln Ser Ile Leu Gln Gln Gln Pro Gln Ser Gly Gln Val Ala Gly Leu
216           180                 185                 190
219 Leu Ala Ala Gln Ile Ala Gln Gln Leu Thr Ala Met Cys Gly Leu Gln
220           195                 200                 205
223 Gln Pro Thr Pro Cys Pro Tyr Ala Ala Ala Gly Gly Val Pro His
224       210                 215                 220
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RAW SEQUENCE LISTING   DATE: 04/03/2007
PATENT APPLICATION: US/09/117,246D   TIME: 13:20:50

Input Set : **A:\50062.004001.txt**
Output Set: **N:\CRF4\04032007\I117246D.raw**

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230 <213> ORGANISM: maize
233 <220> FEATURE:
234 <221> NAME/KEY: CDS
235 <222> LOCATION: (1)..(693)
237 <400> SEQUENCE: 8
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240 1               5                   10                  15
242 gcc acc tcc acg cat aca agc ggc ggc tgc ggc tgc cag cca ccg ccg      96
243 Ala Thr Ser Thr His Thr Ser Gly Gly Cys Gly Cys Gln Pro Pro Pro
244             20                  25                  30
246 ccg gtt cat cta ccg ccg ccg gtg cat ctg cca cct ccg gtt cac ctg     144
247 Pro Val His Leu Pro Pro Pro Val His Leu Pro Pro Pro Val His Leu
248         35                  40                  45
250 cca cct ccg gtg cat ctc cca ccg ccg gtc cac ctg ccg ccg ccg gtc     192
251 Pro Pro Pro Val His Leu Pro Pro Pro Val His Leu Pro Pro Pro Val
252     50                  55                  60
254 cac ctg cca ccg ccg gtc cat gtg ccg ccg ccg gtt cat ctg ccg ccg     240
255 His Leu Pro Pro Pro Val His Val Pro Pro Pro Val His Leu Pro Pro
256 65                  70                  75                  80
258 cca cca tgc cac tac cct act caa ccg ccc cgg atc gaa ttc aaa cca     288
259 Pro Pro Cys His Tyr Pro Thr Gln Pro Pro Arg Ile Glu Phe Lys Pro
260                 85                  90                  95
262 aag cca aag ccg aag cca aaa gaa ttc aaa cca aag cca aag ccg aag     336
263 Lys Pro Lys Pro Lys Pro Lys Glu Phe Lys Pro Lys Pro Lys Pro Lys
264             100                 105                 110
266 cca aaa gaa ttc ctg cag ccc ctg cag gga acc tgc ggc gtt ggc agc     384
267 Pro Lys Glu Phe Leu Gln Pro Leu Gln Gly Thr Cys Gly Val Gly Ser
268         115                 120                 125
270 acc ccg atc ctg ggc cag tgc gtc gag ttt ctg agg cat cag tgc agc     432
271 Thr Pro Ile Leu Gly Gln Cys Val Glu Phe Leu Arg His Gln Cys Ser
272     130                 135                 140
274 ccg acg gcg acg ccc tac tgc tcg cct cag tgc cag tcg ttg cgg cag     480
275 Pro Thr Ala Thr Pro Tyr Cys Ser Pro Gln Cys Gln Ser Leu Arg Gln
276 145                 150                 155                 160
278 cag tgt tgc cag cag ctc agg cag gtg gag ccg cag cac cgg tac cag     528
279 Gln Cys Cys Gln Gln Leu Arg Gln Val Glu Pro Gln His Arg Tyr Gln
280                 165                 170                 175
282 gcg atc ttc ggc ttg gtc ctc cag tcc atc ctg cag cag cag ccg caa     576
283 Ala Ile Phe Gly Leu Val Leu Gln Ser Ile Leu Gln Gln Gln Pro Gln
284             180                 185                 190
286 agc ggc cag gtc gcg ggg ctg ttg gcg gcg cag ata gcg cag caa ctg     624
287 Ser Gly Gln Val Ala Gly Leu Leu Ala Ala Gln Ile Ala Gln Gln Leu
288             195                 200                 205
290 acg gcg atg tgc ggc ctg cag cag ccg act cca tgc ccc tac gct gct     672
291 Thr Ala Met Cys Gly Leu Gln Gln Pro Thr Pro Cys Pro Tyr Ala Ala
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292   210   215   220
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296 225   230
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302 <213> ORGANISM: maize
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307 1   5   10   15
310 Ala Thr Ser Thr His Thr Ser Gly Gly Cys Gly Cys Gln Pro Pro Pro
311   20   25   30
314 Pro Val His Leu Pro Pro Pro Val His Leu Pro Pro Pro Val His Leu
315   35   40   45
318 Pro Pro Pro Val His Leu Pro Pro Pro Val His Leu Pro Pro Pro Val
319   50   55   60
322 His Leu Pro Pro Pro Val His Val Pro Pro Pro Val His Leu Pro Pro
323 65   70   75   80
326 Pro Pro Cys His Tyr Pro Thr Gln Pro Pro Arg Ile Glu Phe Lys Pro
327   85   90   95
330 Lys Pro Lys Pro Lys Pro Lys Glu Phe Lys Pro Lys Pro Lys Pro Lys
331   100   105   110
334 Pro Lys Glu Phe Leu Gln Pro Leu Gln Gly Thr Cys Gly Val Gly Ser
335   115   120   125
338 Thr Pro Ile Leu Gly Gln Cys Val Glu Phe Leu Arg His Gln Cys Ser
339   130   135   140
342 Pro Thr Ala Thr Pro Tyr Cys Ser Pro Gln Cys Gln Ser Leu Arg Gln
343 145   150   155   160
346 Gln Cys Cys Gln Gln Leu Arg Gln Val Glu Pro Gln His Arg Tyr Gln
347   165   170   175
350 Ala Ile Phe Gly Leu Val Leu Gln Ser Ile Leu Gln Gln Gln Pro Gln
351   180   185   190
354 Ser Gly Gln Val Ala Gly Leu Leu Ala Ala Gln Ile Ala Gln Gln Leu
355   195   200   205
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367 <211> LENGTH: 723
368 <212> TYPE: DNA
369 <213> ORGANISM: Maize
372 <220> FEATURE:
373 <221> NAME/KEY: CDS
374 <222> LOCATION: (1)..(723)
376 <400> SEQUENCE: 10
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378 Met Arg Val Leu Leu Val Ala Leu Ala Leu Leu Ala Leu Ala Ala Ser

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 04/03/2007
PATENT APPLICATION: US/09/117,246D   TIME: 13:20:51

Input Set : **A:\50062.004001.txt**
Output Set: **N:\CRF4\04032007\I117246D.raw**

FYI

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:22; Xaa Pos. 5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25
Seq#:22; Xaa Pos. 26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44
Seq#:22; Xaa Pos. 45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60

VERIFICATION SUMMARY   DATE: 04/03/2007
PATENT APPLICATION: **US/09/117,246D**   TIME: 13:20:51

Input Set : **A:\50062.004001.txt**
Output Set: **N:\CRF4\04032007\I117246D.raw**

L:950 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
M:341 Repeated in SeqNo=22